





# 1. Overview

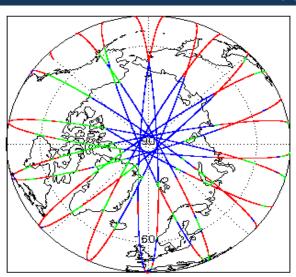
| Report Production: | 23-Sep-2019   |  |
|--------------------|---|--|
| Processor Used:    | CryoSat Ocean Processor   |  |
| Data Used:         | Intermediate Ocean Products (IOP)<br>L1B, L2 & P2P Science Data |  |

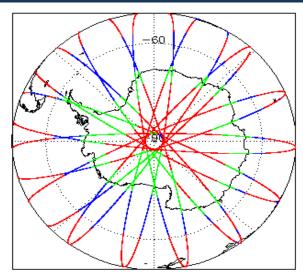
| Check                                      | L1 & L2                      | P2P             |
|--|------------------------------|-----------------|
| Server check: science-pds.cryosat.esa.int  | Nominal                      | Nominal         |
| Server check: calval-pds.cryosat.esa.int   | Nominal                      | Nominal         |
| Product Software Check                     | Nominal                      | Nominal         |
| Product Format Check                       | Nominal                      | Nominal         |
| Product Header Analysis                    | Nominal                      | Nominal         |
| Auxiliary Data File Usage Check            | Nominal                      | Nominal         |
| Auxiliary Correction Error Check           | See Section 5.4              | See Section 6.4 |
| Measurement Confidence Data Check          | See Section 4.5, 4.6 and 5.5 | See Section 6.5 |
| Range, SWH & Backscatter Measurement Check | See Section 5.6              | See Section 6.6 |
| Ocean Retracking Quality Check             | See Section 5.7              | See Section 6.7 |

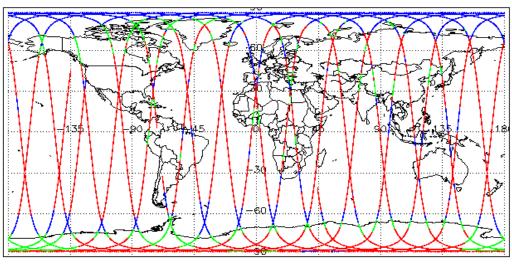
| wission / instru | ment news |
|------------------|-----------|
| 19-Sep-2019      | None      |

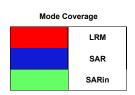
20-Sep-2019 L1 and L2 IOP using AUXI\_IONGIM corrections, due to AUX\_IONGIM product delay (371 products)
21-Sep-2019 Nothing planned

# 2. Global Coverage









# 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIRAL - A

# 4. IOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

#### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

# 4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

0

#### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Ω

#### 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

3

| Product   | Test Failed         | Description  |
|---|---------------------|--|
| CS_OFFL_SIR_IOPM1B_20190920T074059_20190920T074148_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |
| CS_OFFL_SIR_IOPM1B_20190920T074945_20190920T075250_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |
| CS_OFFL_SIR_IOPM1B_20190920T174733_20190920T175318_C001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records |

#### 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

13

| Product  | Test Failed  | Description  |
|--|--------------|--|
| CS_OFFL_SIR_IOPM1B_20190920T051006_20190920T052252_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPM1B_20190920T154307_20190920T161414_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T011221_20190920T011325_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T012338_20190920T012408_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T044230_20190920T044343_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T062003_20190920T062257_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T071540_20190920T072149_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T180606_20190920T180729_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPN1B_20190920T211921_20190920T212409_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20190920T002815_20190920T003309_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20190920T0111142_20190920T011221_C001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20190920T012409_20190920T013155_C001  | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_IOPR1B_20190920T072342_20190920T072651_C001  | Loss of Echo | The tracking echo is missing for one or more records |

# 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

0

# 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

0

# 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

| Product   | Test Failed  | Description  |
|---|--|--|
| CS_OFFL_SIR_IOPM_2_20190919T235736_20190920T002815_C001 | GIM Ionospheric correction   | There is an error with the GIM lonospheric correction for one or more records  |
| CS_OFFL_SIR_IOPM_2_20190920T194604_20190920T194800_C001 | Mean Dynamic Topography (1), Total<br>Geocentric Ocean Tide (FES), Non-<br>Equilibrium Long Period Ocean Tide  | There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records |
| CS_OFFL_SIR_IOPN_2_20190920T003309_20190920T003648_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T013417_20190920T013608_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T021232_20190920T021551_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T022104_20190920T022229_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T030320_20190920T030427_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T040008_20190920T040116_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T044230_20190920T044343_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T053712_20190920T053859_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T062003_20190920T062257_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T071540_20190920T072149_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T075724_20190920T080140_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T084616_20190920T084847_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T085513_20190920T085825_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T093614_20190920T094002_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T103602_20190920T103718_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T134510_20190920T134635_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T135157_20190920T135505_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T152453_20190920T152716_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T170533_20190920T170808_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T180040_20190920T180201_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1), Total Geocentric Ocean<br>Tide (GOT)   | There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records      |
| CS_OFFL_SIR_IOPN_2_20190920T194008_20190920T194219_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T202258_20190920T202440_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T203320_20190920T203523_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T211921_20190920T212409_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOPN_2_20190920T221117_20190920T221336_C001 | Mean Dynamic Topography (1)  | There is an error with the Mean Dynamic Topography height for one or more records  |
| CS_OFFL_SIR_IOPN_2_20190920T234328_20190920T234600_C001 | mean Sea Suriace (1), mean Dynamic<br>Topography (1), Total Geocentric Ocean<br>Tide (GOT), Total Geocentric Ocean<br>Tide (FES) Non-Equilibrium Long Period | There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records                                  |

| CS_OFFL_SIR_IOPR_2_20190920T012409_20190920T013155_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
|---|--|--|
| CS_OFFL_SIR_IOPR_2_20190920T030427_20190920T031234_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T044343_20190920T045104_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T062257_20190920T063033_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T065001_20190920T065204_C001 | Mean Dynamic Topography (1)                          | There is an error with the Mean Dynamic Topography height for one or more records                      |
| CS_OFFL_SIR_IOPR_2_20190920T080141_20190920T080836_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T094003_20190920T094734_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T111655_20190920T112435_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T125628_20190920T130250_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T130250_20190920T130429_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T143415_20190920T144149_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T144149_20190920T144324_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T161555_20190920T162046_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T162046_20190920T162209_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T175318_20190920T175930_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T175930_20190920T180040_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T193607_20190920T194008_C001 | Mean Sea Surface (1), Mean Dynamic Topography (1)    | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T211409_20190920T211921_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
| CS_OFFL_SIR_IOPR_2_20190920T225423_20190920T225947_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1) | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) |
|   |  |  |

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

| Product   | Test Failed         | Description   |
|---|---------------------|---|
| CS_OFFL_SIR_IOPM_2_20190920T074059_20190920T074148_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_IOPM_2_20190920T074945_20190920T075250_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_IOPM_2_20190920T174733_20190920T175318_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

# 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Number of products with errors: 85

| Product   | Test Failed  | Description  |
|---|--|--|
| CS_OFFL_SIR_IOPM_2_20190919T235736_20190920T002815_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
|   | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPM_2_20190920T004616_20190920T005010_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T012123_20190920T012338_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T013608_20190920T020837_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |

| COC APPEAL SINC DOTALLY 2 (1998) 2010-2013-2014 (2011) COC APPEAL  |   |                               |  |
|--|---|-------------------------------|--|
| Co. OPT. SR. ICPN 2_20190001700002_201900011.0010  | CS_OFFL_SIR_IOPM_2_20190920T021551_20190920T022104_C001 |                               |  |
| and BR-SERIC ORM 2 20100000TT03102 2010000TT03104 20100000TT03104 2010000TT03104  | CS_OFFL_SIR_IOPM_2_20190920T022633_20190920T024249_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| ### COOP A Filter Fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from the Coop A filter fings and Deboted County Figs have been continued from th | CS_OFFL_SIR_IOPM_2_20190920T030042_20190920T030151_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and flandament Capity (Page 1996). Control Administration Capity (Page 1996). Biotectorist Capity (Page 1996). Control Administration Capity (Page 1996). Control Administration Capity (Page 1996). Control Administration Capity (Page 1996). Control Capity | CS_OFFL_SIR_IOPM_2_20190920T031234_20190920T033708_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| South College County  CS_OFF_SRI_OPM_2_2019920704555_019920704555_031  CS_OFF_SRI_OPM_2_2019920704555_0319920704555_031  CS_OFF_SRI_OPM_2_2019920704555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_031920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_031  CS_OFF_SRI_OPM_2_2019920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_0319920705555_03199207055555_03199207055555_0319920705555_03199207055555_03199207055555_03199207055555_03199207055555_ | CS_OFFL_SIR_IOPM_2_20190920T033716_20190920T034734_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Solidon   County      | CS_OFFL_SIR_IOPM_2_20190920T035322_20190920T035550_C001 |                               |  |
| CS_OFFL_SRI_OFM_2_20190207104351_2_20190207104352_C001  CS_OFFL_SRI_OFM_2_20190207104351_2_20190207104352_C001  CS_OFFL_SRI_OFM_2_20190207104351_2_20190207104352_C001  CS_OFFL_SRI_OFM_2_20190207104351_2_20190207104352_C001  CS_OFFL_SRI_OFM_2_20190207104352_C001  CS_OFFL_SRI_OFM_2_20190207104352_C0010  CS_OFFL_SRI_OFM_2_ | CS_OFFL_SIR_IOPM_2_20190920T035557_20190920T040008_C001 |                               |  |
| CS_OFFL_SIR_LOPML_2_201999207104392_20199207104392_00001  CS_OFFL_SIR_LOPML_2_201999207104402_00199207104392_00001  CS_OFFL_SIR_LOPML_2_201999207104392_00199207104392_00001  CS_OFFL_SIR_LOPML_2_201999207104392_00199207104392_00001  CS_OFFL_SIR_LOPML_2_201999207104392_00199207104392_00001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104392_00001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_2019992071043932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_0199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_00199207104922_0001  CS_OFFL_SIR_LOPML_2_201999207104932_0019920710492_0001  CS_OFFL_SIR_LOPML_2_201999207104932_0019920710492_0001  CS_OFFL_SIR_LOPML_2_201999207104932_0019920710492_0001  CS_OFFL_SIR_LOPML_2_201999207104932_0019920710492_0001  CS_OFFL_SIR_LOPML_2 | CS_OFFL_SIR_IOPM_2_20190920T040523_20190920T043055_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Ces. OFFL_SIR_IOPM_2_20190220T05002_20190220T05202_2000  Cos. OFFL_SIR_IOPM_2_20190220T05002_20190220T05202_2000  Cos. OFFL_SIR_IOPM_2_20190220T05002_20190220T05202_2000  Cos. OFFL_SIR_IOPM_2_20190220T05002_20190220T052402_2000  Cos. OFFL_SIR_IOPM_2_20190020T05003_20190020T052402_2000  Cos. OFFL_SIR_IOPM_2_20190020T05003_20190020T052002_2000  Cos. OFFL_SIR_IOPM_2_20190020T05003_20190020T054002_2000  Cos. OFFL_SIR_IOPM_2_20190020T05003_20190020T054002_2000  Cos. OFFL_SIR_IOPM_2_20190020T05003_20190020T054002_2000  Cos. OFFL_SIR_IOPM_2_20190020T05003_20190020T054002_2000  Cos. OFFL_SIR_IOPM_2_20190020T054002_20190020T054002_2000  Cos. OFFL_SIR_IOPM_2_20190020T054002_20190020T054002_2000  Cos. OFFL_SIR_IOPM_2_20190020T054002_200000000000000000000000000000000      | CS_OFFL_SIR_IOPM_2_20190920T043112_20190920T043847_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Beadscatter Cuality. COCO Allmeter Range and Beadscatter Cuality. Coco Beadscatter Cuality. Coco Allmeter Range and Beadscatter Cuality. English was been after coco or more records.  CS. OFFL_SIR_IOPM_2_201900201054554_201902201054449_CO01  CS. OFFL_SIR_IOPM_2_201900201054554_201902201054542_CO01  CS. OFFL_SIR_IOPM_2_201900201054554_201902201054552_CO01  Allmeter Range and Beadscatter Cuality. Coco Allmeter Range and Beadscatter Cuality. Flags have been set for one or more records.  CS. OFFL_SIR_IOPM_2_201900201054554_201902201056825_CO01  Allmeter Range and Beadscatter Cuality. Flags have been set for one or more records.  CS. OFFL_SIR_IOPM_2_201900201054554_201902201056825_CO01  Allmeter Range and Beadscatter Cuality. Flags have been set for one or more records.  CS. OFFL_SIR_IOPM_2_201900201053557_201902010540020_CO01  Allmeter Range and Beadscatter Cuality. Flags have been allmeter Range and Beadscatter Cuality.  CS. OFFL_SIR_IOPM_2_201900201076455_201900201074465_C001  CS. OFFL_SIR_IOPM_2_201900201076450_201070548_C001  CS. OFFL_SIR_IOPM_2_2019 | CS_OFFL_SIR_IOPM_2_20190920T044029_20190920T044230_C001 |                               |  |
| and Backscater Quality, OCOG Allimeter Range and Backscater Quality Flags have been and been accorded to one or more records.  CS_OFFL_SIR_IOPM_2_20190920T052353_20190920T052652_C001  CS_OFFL_SIR_IOPM_2_20190920T052353_20190920T052652_C001  CS_OFFL_SIR_IOPM_2_20190920T052353_20190920T052652_C001  CS_OFFL_SIR_IOPM_2_20190920T052353_20190920T053652_C001  CS_OFFL_SIR_IOPM_2_20190920T052530_20190920T053652_C001  CS_OFFL_SIR_IOPM_2_20190920T05454_20190920T05852_C001  CS_OFFL_SIR_IOPM_2_20190920T05454_20190920T05852_C001  CS_OFFL_SIR_IOPM_2_20190920T054554_20190920T05852_C001  CS_OFFL_SIR_IOPM_2_20190920T055504_20190920T054020_C001  CS_OFFL_SIR_IOPM_2_20190920T055504_20190920T064028_C001  CS_OFFL_SIR_IOPM_2_20190920T055504_20190920T064028_C001  CS_OFFL_SIR_IOPM_2_20190920T055504_20190920T071400_C001  CS_OFFL_SIR_IOPM_2_20190920T055504_20190920T071400_C001  CS_OFFL_SIR_IOPM_2_20190920T075459_20190920T071400_C001  CS_OFFL_SIR_IOPM_2_20190920T075459_20190920T074005_C001  CS_OFFL_SIR_IOPM_2_20190920T075459_20190920T075490_C001  CS_OFFL_SIR_IOPM_2_20190920T075459_20190920T075490_C001000000000000000000000000000000000             | CS_OFFL_SIR_IOPM_2_20190920T045104_20190920T050525_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality Plags have been after County Plags and the COCG Altimeter Range and Backscatter Quality Plags have been after County Plags and the COCG Altimeter Range and Backscatter Quality Plags have been after Quality Plags have been  | CS_OFFL_SIR_IOPM_2_20190920T051006_20190920T052252_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Backscatter Quality frage CS_OFFL_SIR_JOPM_2_20190920T054554_20190920T055825_C001  CS_OFFL_SIR_JOPM_2_20190920T064554_20190920T055825_C001  CS_OFFL_SIR_JOPM_2_20190920T060039_20190920T062002_C001  CS_OFFL_SIR_JOPM_2_20190920T060039_20190920T064028_C001  CS_OFFL_SIR_JOPM_2_20190920T063957_20190920T064028_C001  CS_OFFL_SIR_JOPM_2_20190920T065204_20190920T07648_C001  CS_OFFL_SIR_JOPM_2_20190920T065204_20190920T07648_C001  CS_OFFL_SIR_JOPM_2_20190920T065204_20190920T07648_C001  CS_OFFL_SIR_JOPM_2_20190920T076855_20190920T074805_C001  CS_OFFL_SIR_JOPM_2_20190920T0765204_20190920T074805_C001  CS_OFFL_SIR_JOPM_2_20190920T076482_Q001  CS_OFFL_SIR_JOPM_2_20190920T076482_Q001  CS_OFFL_SIR_JOPM_2_20190920T074539_20190920T074805_C001  CS_OFFL_SIR_JOPM_2_20190920T074539_C001  CS_OFFL_SIR_JOPM_2_20190920T074539_20190920T074805_C001  CS_OFFL_SIR_JOPM_2_20190920T074539_C001  CS_OFFL_SIR_JOPM_2_20190920T074539_C001  CS_OFFL_SIR_JOPM_2_20190920T074539_C001  CS_OFFL_SIR_JOPM_2_20190920T074539_C001  CS_OFFL_SIR_JOPM_2_20190920T074824_20190920T074828_C001  CS_OFFL_SIR_JOPM_2_20190920T074824_20190920T075630_C001  CS_OFFL_SIR_JOPM_2_20190920T076413_20190920T075630_C001  CS_OFFL_SIR_JOPM_2_20190920T076413_20190920T0768316_C001  CS_OFFL_SIR_JOPM_2_20190920T076413_20190920T0768316_C001  CS_OFFL_SIR_JOPM_2_20190920T08447_20190920T088316_C001  CS_OFFL_SIR_JOPM_2_20190920T08447_20190920T088316_C001  CS_OFFL_SIR_JOPM_2_20190920T08447_20190920T088316_C001  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCA Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CC_OCA Altimeter Range and Backscatter | CS_OFFL_SIR_IOPM_2_20190920T052353_20190920T052652_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_IOPM_2_20190920T064554_20190920T062002_C001  All mater Range and Backscatter Quality Flags have been add no or own records.  CS_OFFL_SIR_IOPM_2_20190920T060039_20190920T062002_C001  CS_OFFL_SIR_IOPM_2_20190920T063957_20190920T064928_C001  CS_OFFL_SIR_IOPM_2_20190920T063957_20190920T064928_C001  CS_OFFL_SIR_IOPM_2_20190920T065204_20190920T076492_C001  CS_OFFL_SIR_IOPM_2_20190920T065204_20190920T070548_C001  CS_OFFL_SIR_IOPM_2_20190920T0705524_20190920T070548_C001  CS_OFFL_SIR_IOPM_2_20190920T0705524_20190920T07400_C001  CS_OFFL_SIR_IOPM_2_20190920T076524_20190920T07400_C001  CS_OFFL_SIR_IOPM_2_20190920T076524_20190920T07400_C001  CS_OFFL_SIR_IOPM_2_20190920T076524_20190920T07400_C001  CS_OFFL_SIR_IOPM_2_20190920T07653_20190920T07400_C001  CS_OFFL_SIR_IOPM_2_20190920T07653_20190920T07400_C001  CS_OFFL_SIR_IOPM_2_20190920T076453_20190920T074905_C001  CS_OFFL_SIR_IOPM_2_20190920T076424_20190920T074905_C001  CS_OFFL_SIR_IOPM_2_20190920T076424_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076427_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076427_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076427_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076427_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076427_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076433_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T076433_20190920T076530_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082132_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082433_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082433_C001  CS_OFFL_SIR_IOPM_2_20190920T0824647_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T084487_201909 | CS_OFFL_SIR_IOPM_2_20190920T052930_20190920T053449_C001 |                               |  |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T063957_20190920T064928_C001  CS_OFFL_SIR_IOPM_2_20190920T065204_20190920T07548_C001  CS_OFFL_SIR_IOPM_2_20190920T065204_20190920T07548_C001  CS_OFFL_SIR_IOPM_2_20190920T075504_C0190920T07548_C001  CS_OFFL_SIR_IOPM_2_20190920T075539_20190920T074805_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T08433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T08433_C001  CCS_OFFL_SIR_IOPM_2_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T080531_20190920T084311_C001  CCS_OFFL_SIR_IOPM_2_20190920T080531_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316_C001  CCS_OFFL_SIR_IOPM_2_20190920T085312_20190920T085316 | CS_OFFL_SIR_IOPM_2_20190920T054554_20190920T055825_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_CO01  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_CO01  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_CO01  CS_OFFL_SIR_IOPM_2_20190920T08053_20190920T085316_CO01  CS_OFFL_SIR_IOPM_2_20190920T08053_20190920T093411_CO01  CS_OFFL_SIR_IOPM_2_20190920T08053_20190920T093411_CO01  Altimeter Range and Backscatter Quality, Flags have been set for on | CS_OFFL_SIR_IOPM_2_20190920T060039_20190920T062002_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T07855_20190920T071400_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074805_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074805_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T084443_C001  CS_OFFL_SIR_IOPM_2_20190920T084443_C001  CS_OFFL_SIR_IOPM_2_20190920T084443_C001  CS_OFFL_SIR_IOPM_2_20190920T084447_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084447_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084447_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084447_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T080531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T083411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T083516_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T083516_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T083516_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T090531_201909 | CS_OFFL_SIR_IOPM_2_20190920T063957_20190920T064928_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Backscatter Quality  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074805_C001  CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T074928_C001  CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T075530_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102366_C001  CS_OFFL_SIR_IOPM_2_20190920T09593 | CS_OFFL_SIR_IOPM_2_20190920T065204_20190920T070548_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082117_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T08053_20190920T095411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatt | CS_OFFL_SIR_IOPM_2_20190920T070855_20190920T071400_C001 |                               |  |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T0905931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190 | CS_OFFL_SIR_IOPM_2_20190920T074539_20190920T074805_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T0824433_C001  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001  CS_OFFL_SIR_IOPM_2_2 | CS_OFFL_SIR_IOPM_2_20190920T074824_20190920T074928_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| Backscatter Quality  CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09053_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T090953_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T090953_20190920T093411_C001  CS_OFFL_SIR_IOPM_2_20190920T09095931_20190920T102336_C001  COCEAN Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T09095931_20190920T102336_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  | CS_OFFL_SIR_IOPM_2_20190920T075413_20190920T075630_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality  CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  | CS_OFFL_SIR_IOPM_2_20190920T082127_20190920T082229_C001 |                               |  |
| Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been   | CS_OFFL_SIR_IOPM_2_20190920T082910_20190920T084433_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
| CS_OFFL_SIR_IOPM_2_20190920T090053_20190920T093411_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a | CS_OFFL_SIR_IOPM_2_20190920T084847_20190920T085316_C001 |                               |  |
| CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been   | CS_OFFL_SIR_IOPM_2_20190920T090053_20190920T093411_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |
|  | CS_OFFL_SIR_IOPM_2_20190920T095931_20190920T102336_C001 | and Backscatter Quality, OCOG | and the OCOG Altimeter Range and Backscatter Quality Flags have been |

| CS_OFFL_SIR_IOPM_2_20190920T102710_20190920T103217_C001 | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
|---|--|--|
| CS_OFFL_SIR_IOPM_2_20190920T103943_20190920T110636_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T110801_20190920T111110_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T113450_20190920T120301_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T120655_20190920T121507_C001 | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPM_2_20190920T122018_20190920T125245_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T130429_20190920T130753_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T133638_20190920T134050_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T134635_20190920T135156_C001 | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPM_2_20190920T135908_20190920T142006_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T142252_20190920T143415_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T144356_20190920T144820_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T150411_20190920T150857_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T151045_20190920T152040_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T152717_20190920T153056_C001 | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPM_2_20190920T153814_20190920T154257_C001 |  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T154307_20190920T161414_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T162715_20190920T165833_C001 |  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T170808_20190920T171002_C001 | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPM_2_20190920T171255_20190920T171435_C001 | OCOG Altimeter Range Quality, OCOG<br>Backscatter Quality  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPM_2_20190920T171751_20190920T172305_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T173905_20190920T174551_C001 |  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T180729_20190920T181322_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T181411_20190920T182305_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T182924_20190920T184007_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T185702_20190920T190259_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920T190408_20190920T191053_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |

| Des Districter Flags (1994) 2, 20100000110420 201000000110420 20100000110420 20100000110420 20100000110420 20100000110420 20100000110420 20100000110420 20100000110420 201000000110420 20100000110420 20100000110420 20100000110420 20100000110420 201 |   |  |  |
|--|---|--|--|
| Co. OFFL_SRI_OPM_2_2919000719258_29190007120320_COID   Col. OFFL_SRI_OPM_2_2919000712038_29190007120320_COID   Col. OFFL_SRI_OPM_2_2919000712038_29190007120320_COID   Col. OFFL_SRI_OPM_2_2919000712038_29190007120320_COID   Col. OFFL_SRI_OPM_2_2919000712038_29190007120320_COID   Col. OFFL_SRI_OPM_2_2919000712038_29190007120330_COID   Col. OFFL_SRI_OPM_2_29190000712038_29190007120330_COID   Col. OFFL_SRI_OPM_2_29190000712038_2919000712038_200000712038_2000071203   | CS_OFFL_SIR_IOPM_2_20190920T191232_20190920T192801_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CB_OFFL_SIR_JOPM_2_20160007120388_20166007100002_0001  CB_OFFL_SIR_JOPM_2_20160007120388_20166007100000_0001  CB_OFFL_SIR_JOPM_2_20160007120388_20166007100000_0001  CB_OFFL_SIR_JOPM_2_201600071210388_20166007100000_0001  CB_OFFL_SIR_JOPM_2_201600071210088_20166007100000_0001  CB_OFFL_SIR_JOPM_2_20160007121008_20166007100000_0001  CB_OFFL_SIR_JOPM_2_20160007121008_20166007100000_0001  CB_OFFL_SIR_JOPM_2_20160007121008_20166007100000_0001  CB_OFFL_SIR_JOPM_2_20160007121008_201660071000000_0001  CB_OFFL_SIR_JOPM_2_20160007121008_201660071000000_0001  CB_OFFL_SIR_JOPM_2_20160007121008_201660071000000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_0001211000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_0001211000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_0001211000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_0001211000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_0001211000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_000121000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_0001210000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_000121000_0001  CB_OFFL_SIR_JOPM_2_20160007121000_00012000000000000000000000000  | CS_OFFL_SIR_IOPM_2_20190920T194242_20190920T194336_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CB_0FFL_SRI_LOPM_2_20100001730002_01000017100000_0001  CB_0FFL_SRI_LOPM_2_20100001730000_00100014_0001  CB_0FFL_SRI_LOPM_2_20100001730000_20100001700014_0001  CB_0FFL_SRI_LOPM_2_20100001720000_20100001700014_0001  CB_0FFL_SRI_LOPM_2_20100001720000_20100001700014_0001  CB_0FFL_SRI_LOPM_2_20100001720000_20100001700014_0001  CB_0FFL_SRI_LOPM_2_20100001721000_20100001700014_0001  CB_0FFL_SRI_LOPM_2_20100001721408_0010  CB_0FFL_SRI_LOPM_2_20100001721408_00100001722408_0010  CB_0FFL_SRI_LOPM_2_20100001724408_00100001722408_0010  CB_0FFL_SRI_LOPM_2_20100001724408_00100001722408_0010  CB_0FFL_SRI_LOPM_2_20100001724408_00100001722408_0010  CB_0FFL_SRI_LOPM_2_20100001724408_00100001722408_0010  CB_0FFL_SRI_LOPM_2_20100001724408_00100001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_001000172408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_0010001722408_ | CS_OFFL_SIR_IOPM_2_20190920T195754_20190920T200242_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| Dear Altimeter Range and Backscatter Quality  CS_OFFL_SIR_LOPM_2_20199920T12952_20199020T129111_Q011  CS_OFFL_SIR_LOPM_2_20199920T121928_20199020T129111_Q011  CS_OFFL_SIR_LOPM_2_20199920T121928_20199020T129111_Q011  CS_OFFL_SIR_LOPM_2_20199920T121928_20199020T129111_Q011  CS_OFFL_SIR_LOPM_2_20199920T121928_20199020T12910_Q011  CS_OFFL_SIR_LOPM_2_20199920T121929_2019920T12929_Q011  CS_OFFL_SIR_LOPM_2_20199920T12929_2019920T12929_Q011  CS_OFFL_SIR_LOPM_2_20199920T12929_Q011  CS_OFFL_SIR_LOPM_2_20199920T12929_Q011  CS_OFFL_SIR_LOPM_2_20199920T12929_Q011  CS_OFFL_SIR_LOPM_2_20199920T12929_Q011  CS_OFFL_SIR_LOPM_2_20199920T12939_Q011  CS_OFFL_SIR_LOPM_2_20199920T12939_Q01112440_Q011  CS_OFFL_SIR_LOPM_2_20199920T12939_Q011 | CS_OFFL_SIR_IOPM_2_20190920T200538_20190920T202029_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and declaraction Country (1997)  Amortion Renging and Backscanter (1998)  Amortion Renging (1998)  Coperation Renging (1 | CS_OFFL_SIR_IOPM_2_20190920T202440_20190920T203320_C001 |  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| and the COGA fillimeter Range and Backscatter Quality / Top Cog OFFL_SIR_IOPM_2_201906207211409_2010106207211409_20001  CS_OFFL_SIR_IOPM_2_201906207211409_201906207211409_20001  CS_OFFL_SIR_IOPM_2_201906207212409_201906207212607_20001  CS_OFFL_SIR_IOPM_2_201906207212409_201906207212607_20001  CS_OFFL_SIR_IOPM_2_201906207212609_201906207220011_C001  CS_OFFL_SIR_IOPM_2_201906207212609_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207212609_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207221002_201906207220010_C001  CS_OFFL_SIR_IOPM_2_201906207220010_20106207220010_C001  CS_OFFL_SIR_IOPM_2_2019062072200000000000000000000000000000000   | CS_OFFL_SIR_IOPM_2_20190920T203652_20190920T205814_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and Backscratter Quality Plags have Landiner Range and Ba | CS_OFFL_SIR_IOPM_2_20190920T211228_20190920T211311_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| Backscatter Quality  CS_OFFL_SIR_JOPM_2_201909201721833_201909201722011_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have and Backscatter Quality Flags have Left one or more records.  CS_OFFL_SIR_JOPM_2_201909201721829_201909201724008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224008_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017224810_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_2019092017225130_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_201909201722510_C001  CS_OFFL_SIR_JOPM_2_2019092017224500_201909201722510_C001  CS_OFFL_SIR_JOPM_2_201909201722501_C001  CS_OFFL_SIR_JOPM_2_201909201722501_C001  CS_OFFL_SIR_JOPM_2_201909201722501_C001  CS_OFFL_SIR_JOPM_2_201909201722501_C001  CS_OFFL_SIR_JOPM_2_201909201722501_C001  CS_OFFL_SIR_JOPM_2_201909201722501_C001  CS_OFFL_SIR_JOPM_2_201909201723500_C019092017225110_C001  CS_OFFL_SIR_JOPM_2_201909201723500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_201909201723500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017235201_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017235201_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017235201_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017235201_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235180_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235280_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235280_C001  CS_OFFL_SIR_JOPM_2_2019092017234500_C019092017235280_C001  CS_OFF | CS_OFFL_SIR_IOPM_2_20190920T211405_20190920T211409_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPM_2_20190920712450_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124510_C001  CS_OFFL_SIR_IOPM_2_20190920712450_C00100207124510_C001  CS_OFFL_SIR_IOPM_2_20190920712450_C00100207124510_C001  CS_OFFL_SIR_IOPM_2_20190920712450_C00100207124510_C001  CS_OFFL_SIR_IOPM_2_20190920712450_C00100207124510_C001  CS_OFFL_SIR_IOPM_2_201909207124552_C0010020712440_C001  CS_OFFL_SIR_IOPM_2_201909207124552_C0010020712440_C001  CS_OFFL_SIR_IOPM_2_201909207124553_C01909207124562_C0010020712440_C001  CS_OFFL_SIR_IOPM_2_201909207124553_C01909207125628_C001  CS_OFFL_SIR_IOPM_2_20190920712553_C01909207125628_C001  CS_OFFL_SIR_IOPM_2_20190920712553_C01909207125628_C001  CS_OFFL_SIR_ | CS_OFFL_SIR_IOPM_2_20190920T212409_20190920T212527_C001 |  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| and Backscatter Quality, OCOG Allmeter Range and Backscatter Quality Flags have to Allmeter Range and Backscatter Quality Flags have to CS_OFFL_SIR_IOPM_2_201992071221944_201992071224006_CO01  CS_OFFL_SIR_IOPM_2_201992071221944_201992071224810_CO01  CS_OFFL_SIR_IOPM_2_201992071224810_201992071224810_CO01  CS_OFFL_SIR_IOPM_2_201992071224810_201992071225130_CO01  CS_OFFL_SIR_IOPM_2_201992071224810_201992071225310_CO01  CS_OFFL_SIR_IOPM_2_20199207122514_201992071225310_CO01  CS_OFFL_SIR_IOPM_2_20199207122514_201992071225310_CO01  CS_OFFL_SIR_IOPM_2_20199207123513_20199207123318_CO01  CS_OFFL_SIR_IOPM_2_201992071231230_201999207123318_CO01  CS_OFFL_SIR_IOPM_2_2019992071231230_201999207123318_CO01  CS_OFFL_SIR_IOPM_2_2019992071231230_201999207123318_CO01  CS_OFFL_SIR_IOPM_2_201999207123521_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123521_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207123523_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207112435_2019992071001429_CO01  CS_OFFL_SIR_IOPM_2_201999207112435_201999207112449_CO01  CS_OFFL_SIR_IOPM_2_201999207112435_201999207112449_CO01  CS_OFFL_SIR | CS_OFFL_SIR_IOPM_2_20190920T212633_20190920T220011_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and the OCGG Altimeter Range and Backscatter Quality Flags have team of Core or more records.  CS_OFFL_SIR_IOPM_2_20190920T224510_20190920T224810_C001  CS_OFFL_SIR_IOPM_2_20190920T224810_20190920T225130_C001  CS_OFFL_SIR_IOPM_2_20190920T224810_20190920T225130_C001  CS_OFFL_SIR_IOPM_2_20190920T224810_20190920T225130_C001  CS_OFFL_SIR_IOPM_2_20190920T225214_20190920T22531_C001  CS_OFFL_SIR_IOPM_2_20190920T225214_20190920T225311_C001  CS_OFFL_SIR_IOPM_2_20190920T225214_20190920T225311_C001  CS_OFFL_SIR_IOPM_2_20190920T231230_20190920T235318_C001  CS_OFFL_SIR_IOPM_2_20190920T231230_20190920T235153_C001  CS_OFFL_SIR_IOPM_2_20190920T23521_20190920T235153_C001  CS_OFFL_SIR_IOPM_2_20190920T23521_20190920T235153_C001  CS_OFFL_SIR_IOPM_2_20190920T23521_20190920T235153_C001  CS_OFFL_SIR_IOPM_2_20190920T235221_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T032521_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T032521_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T032521_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T032521_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T032521_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T0325321_20190920T03430_C001  CS_OFFL_SIR_IOPM_2_20190920T032533_20190920T10440_C001  CS_OFFL_SIR_IOPM_2_20190920T125453_20190920T11249_C001  CS_OFFL_SIR_IOPM_2_20190920T125453_20190920T11249_C001  CS_OFFL_SIR_IOPM_2_20190920T125453_20190920T11249_C001  CS_OFFL_SIR_IOPM_2_20190920T112553_20190920T1125628_C001  CS_OFFL_SIR_IOPM_2_20190920T112553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T112553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T13253_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132553_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920 | CS_OFFL_SIR_IOPM_2_20190920T221629_20190920T221932_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| Backscatter Quality  CS_OFFL_SIR_IOPM_2_20190920T224810_20190920T225130_C001  CS_OFFL_SIR_IOPM_2_20190920T225214_20190920T225341_C001  CS_OFFL_SIR_IOPM_2_20190920T225214_20190920T225341_C001  CS_OFFL_SIR_IOPM_2_20190920T2351230_20190920T235131_C001  CS_OFFL_SIR_IOPM_2_20190920T2351230_20190920T233818_C001  CS_OFFL_SIR_IOPM_2_20190920T235232_20190920T233513_C001  CS_OFFL_SIR_IOPM_2_20190920T235521_20190920T235153_C001  CS_OFFL_SIR_IOPM_2_20190920T235521_20190920T001429_C001  CS_OFFL_SIR_IOPM_2_20190920T235521_20190920T001429_C001  CS_OFFL_SIR_IOPM_2_20190920T235521_20190920T1001249_C001  CS_OFFL_SIR_IOPM_2_20190920T12435_20190920T1001249_C001  CS_OFFL_SIR_IOPM_2_20190920T12435_20190920T1001249_C001  CS_OFFL_SIR_IOPM_2_20190920T004226_20190920T004340_C001  CS_OFFL_SIR_IOPM_2_20190920T10425521_20190920T1001249_C001  CS_OFFL_SIR_IOPM_2_20190920T1001249_C001  CS_OFFL_SIR_IOPM_2_20190920T1000000000000000000000000000000   | CS_OFFL_SIR_IOPM_2_20190920T221944_20190920T224006_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and Backscatter Quality, OCOS Altimeter Range and Backscatter Quality Flags have to Altimeter Range an | CS_OFFL_SIR_IOPM_2_20190920T224500_20190920T224810_C001 |  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have to set for one or mor | CS_OFFL_SIR_IOPM_2_20190920T224810_20190920T225130_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to for one or more records.  CS_OFFL_SIR_IOPM_2_20190920T2354600_20190920T235153_C001  CS_OFFL_SIR_IOPM_2_20190920T235521_20190921T001249_C001  CS_OFFL_SIR_IOPM_2_20190920T235521_20190921T001249_C001  CS_OFFL_SIR_IOPM_2_20190920T004226_20190920T004340_C001  CS_OFFL_SIR_IOPM_2_20190920T004226_20190920T004340_C001  CS_OFFL_SIR_IOPM_2_20190920T112435_20190920T104449_C001  CS_OFFL_SIR_IOPM_2_20190920T112435_20190920T112449_C001  CS_OFFL_SIR_IOPM_2_20190920T112435_20190920T112449_C001  CS_OFFL_SIR_IOPM_2_20190920T112435_20190920T1125628_C001  CS_OFFL_SIR_IOPM_2_20190920T125453_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPM_2_20190920T150042_20190920T150411_C001  CS_OFFL_SIR_IOPM_2_20190920T150042_20190920T150411_C0 | CS_OFFL_SIR_IOPM_2_20190920T225214_20190920T225341_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| Backscatter Quality  Cs_OFFL_SIR_IOPM_2_20190920T235521_20190921T001249_C001  Cs_OFFL_SIR_IOPM_2_20190920T004226_20190921T001249_C001  Cs_OFFL_SIR_IOPM_2_20190920T004226_20190920T004340_C001  Cs_OFFL_SIR_IOPM_2_20190920T004226_20190920T004340_C001  Cs_OFFL_SIR_IOPM_2_20190920T112435_20190920T10449_C001  Cs_OFFL_SIR_IOPM_2_20190920T112435_20190920T112449_C001  Cs_OFFL_SIR_IOPM_2_20190920T112435_20190920T112449_C001  Cs_OFFL_SIR_IOPM_2_20190920T112435_20190920T112449_C001  Cs_OFFL_SIR_IOPM_2_20190920T125453_20190920T1125628_C001  Cs_OFFL_SIR_IOPM_2_20190920T125453_20190920T125628_C001  Cs_OFFL_SIR_IOPM_2_20190920T132533_20190920T132551_C001  Cs_OFFL_SIR_IOPM_2_20190920T150042_20190920T150411_C001  Ccean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to records.  Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to records.  Ccean Altimeter Range, SSHA, SWH and Backscatter Q | CS_OFFL_SIR_IOPM_2_20190920T231230_20190920T233818_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to Set for one or more records.  CS_OFFL_SIR_IOPN_2_20190920T104226_20190920T004340_C001  CS_OFFL_SIR_IOPN_2_20190920T112435_20190920T112449_C001  CS_OFFL_SIR_IOPN_2_20190920T112435_20190920T112449_C001  CS_OFFL_SIR_IOPN_2_20190920T112435_20190920T112449_C001  CS_OFFL_SIR_IOPN_2_20190920T1125453_20190920T125628_C001  CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T180066_20190920T180729_C001  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180709_C001  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180709 | CS_OFFL_SIR_IOPM_2_20190920T234600_20190920T235153_C001 |  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality  OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to set for one or more records.  OCEAN Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to set for one or more records.  OCEAN Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to set for one or more records.  OCEAN Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  OCEAN Altimeter Range, SSHA, SWH And Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Q | CS_OFFL_SIR_IOPM_2_20190920T235521_20190921T001249_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.  CS_OFFL_SIR_IOPN_2_20190920T125453_20190920T125628_C001  CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T132551_C001  CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001  and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG   | CS_OFFL_SIR_IOPN_2_20190920T004226_20190920T004340_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T125453_20190920T125628_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001  and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been for one or more records.  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001  | CS_OFFL_SIR_IOPN_2_20190920T112435_20190920T112449_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  Backscatter Quality  CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001  Backscatter Quality  for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  | CS_OFFL_SIR_IOPN_2_20190920T125453_20190920T125628_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have to set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have to set for one or more records.  | CS_OFFL_SIR_IOPN_2_20190920T132533_20190920T132551_C001 |  | The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have to   | CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001 | and Backscatter Quality, OCOG  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| Allineter Range and Backscatter Quality Set for one of more records.   |   |  | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been                              |
| CS_OFFL_SIR_IOPR_2_20190920T044343_20190920T045104_C001  OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been for one or more records.   | CS_OFFL_SIR_IOPN_2_20190920T180606_20190920T180729_C001 | Altimeter Range and Backscatter Quality                                    | set for one or more records.   |
| CS_OFFL_SIR_IOPR_2_20190920T070548_20190920T070709_C001  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records.   |   | Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG | The OCOG Altimeter Range and Backscatter Quality Flags have been set   |

# L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Number of products with errors:

| Product   | Test Failed   | Description  |
|---|---|--|
| CS_OFFL_SIR_IOPN_2_20190920T003309_20190920T003648_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T004226_20190920T004340_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T005925_20190920T010127_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T011221_20190920T011325_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T012338_20190920T012408_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T013155_20190920T013330_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T024249_20190920T024602_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T034945_20190920T035322_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T052751_20190920T052929_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T063607_20190920T063957_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T070709_20190920T070854_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T075630_20190920T075641_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T075724_20190920T080140_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T093411_20190920T093533_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T093614_20190920T094002_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T094954_20190920T095125_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T103602_20190920T103718_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T111110_20190920T111655_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T112600_20190920T112645_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T120531_20190920T120655_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T125245_20190920T125418_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T125453_20190920T125628_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T130821_20190920T130944_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T133408_20190920T133412_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |

| CS_OFFL_SIR_IOPN_2_20190920T135157_20190920T135505_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
|---|---|--|
| CS_OFFL_SIR_IOPN_2_20190920T150042_20190920T150411_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T152453_20190920T152716_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T153056_20190920T153429_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T162628_20190920T162715_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T170533_20190920T170808_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T171002_20190920T171255_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T174603_20190920T174733_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T184102_20190920T184654_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T193515_20190920T193606_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T194336_20190920T194604_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T202258_20190920T202440_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T211921_20190920T212409_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T221117_20190920T221336_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T225130_20190920T225213_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPN_2_20190920T234205_20190920T234325_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPN_2_20190920T234328_20190920T234600_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T002815_20190920T003309_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T004341_20190920T004616_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T005010_20190920T005405_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T011716_20190920T012027_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T012409_20190920T013155_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T020837_20190920T021232_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T022229_20190920T022633_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T025107_20190920T025143_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T025311_20190920T025432_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T025436_20190920T025611_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
|   |   |  |

| CS_OFFL_SIR_IOPR_2_20190920T030427_20190920T031234_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
|---|---|--|
| CS_OFFL_SIR_IOPR_2_20190920T034735_20190920T034945_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T040116_20190920T040523_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T052652_20190920T052751_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T053859_20190920T054344_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T055831_20190920T060039_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T062257_20190920T063033_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM          | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T065001_20190920T065204_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T070548_20190920T070709_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T080141_20190920T080836_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T082229_20190920T082300_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T084433_20190920T084615_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T085825_20190920T090053_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T094003_20190920T094734_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T111655_20190920T112435_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T113401_20190920T113450_C001 | OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality   | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T120301_20190920T120531_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM          | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T121623_20190920T122018_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM          | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T125418_20190920T125453_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
| CS_OFFL_SIR_IOPR_2_20190920T125628_20190920T130250_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T130250_20190920T130429_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T134050_20190920T134510_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T135505_20190920T135908_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM          | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T143415_20190920T144149_C001 | Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM          | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T144149_20190920T144324_C001 | Ocean Altimeter Range, SSHA, SWH<br>and Backscatter Quality PLRM, OCOG<br>Altimeter Range and Backscatter Quality<br>PLRM | The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. |
| CS_OFFL_SIR_IOPR_2_20190920T145156_20190920T145206_C001 | OCOG Altimeter Range Quality PLRM,<br>OCOG Backscatter Quality  | The OCOG Range and Backscatter Quality Flags have been set for one or more records.  |
|   |   |  |

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been CS OFFL SIR IOPR 2 20190920T152040 20190920T152452 C001 Altimeter Range and Backscatter Quality set for one or more records Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been CS\_OFFL\_SIR\_IOPR\_2\_20190920T153429\_20190920T153814\_C001

Altimeter Range and Backscatter Quality

set for one or more records.

#### L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors: 197

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

PLRM

Number of products with errors:

#### L2 Retracking Flags (20Hz, PLRM)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

152

#### 6. IOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

Number of products with errors:

#### 6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

#### 6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors: 29

| Product   | Test Failed   | Description  |
|---|---|--|
| CS_OFFL_SIR_IOP_220190919T234739_20190920T003718_C001 | GIM Ionospheric Correction, Mean Sea<br>Surface (1), Mean Dynamic Topography<br>(1) | There is an error with the GIM Ionospheric, the MSS height (solution 1), and the Mean Dynamic Topography (solution 1) correction for one or more records |
| CS_OFFL_SIR_IOP_220190920T003718_20190920T012653_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T012653_20190920T021631_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T021631_20190920T030606_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T030606_20190920T035545_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T035545_20190920T044520_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T044520_20190920T053458_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T053458_20190920T062434_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T062434_20190920T071412_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T071412_20190920T080347_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T080347_20190920T085325_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)                                | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)   |

|  | 1   | I   |
|--|---|---|
| CS_OFFL_SIR_IOP_220190920T085325_20190920T094301_C001  | Mean Sea Surface (1), Mean Dynamic Topography (1)   | There is an error with the MSS height (solution 1) and the Mean Dynamic<br>Topography height (solution 1)   |
| CS_OFFL_SIR_IOP_220190920T094301_20190920T103239_C001  | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_220190920T103239_20190920T112214_C001  | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T112214_20190920T121153_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T121153_20190920T130128_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T130128_20190920T135106_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T135106_20190920T144041_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T144041_20190920T153020_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T153020_20190920T161955_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T161955_20190920T170933_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T170933_20190920T175909_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T175909_20190920T184847_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1), Total Geocentric Ocean<br>Tide (GOT)  | There is an error with the MSS height (solution 1), the Mean Dynamic<br>Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:<br>GOT) for one or more records                                   |
| CS_OFFL_SIR_IOP_220190920T184847_20190920T193822_C001  | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T193822_20190920T202801_C001 | Mean sea suriace (1), Mean Dynamic<br>Topography (1), Total Geocentric Ocean<br>Tide (FES), Non-Equilibrium Long Period   | There is an error with the Miss neight (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more |
| CS_OFFL_SIR_IOP_2_20190920T202801_20190920T211736_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_220190920T211736_20190920T220714_C001  | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_2_20190920T220714_20190920T225649_C001 | Mean Sea Surface (1), Mean Dynamic<br>Topography (1)  | There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)  |
| CS_OFFL_SIR_IOP_220190920T225649_20190920T234628_C002  | Mean Sea Surface (1), Mean Dynamic<br>Topography (1), Total Geocentric Ocean<br>Tide (GOT), Total Geocentric Ocean<br>Tide (FES), Non-Equilibrium Long Period<br>Ocean Tide | There is an error with the MSS height (solution 1), the Mean Dynamic<br>Topography (solution 1), and tidal corrections for one or more records  |

#### 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

| Product   | Test Failed         | Description   |
|---|---------------------|---|
| CS_OFFL_SIR_IOP_220190920T071412_20190920T080347_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |
| CS_OFFL_SIR_IOP_220190920T170933_20190920T175909_C001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

# 6.6 P2P Measurement Quality Flag Check

### P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 30

#### P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 3

#### P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

# 6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)
Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors:

# P2P Retracking Flags PLRM

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: